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# **Naval Air Station Fallon**

# **Nevada Joint Military Affairs**

# **Committee Update**

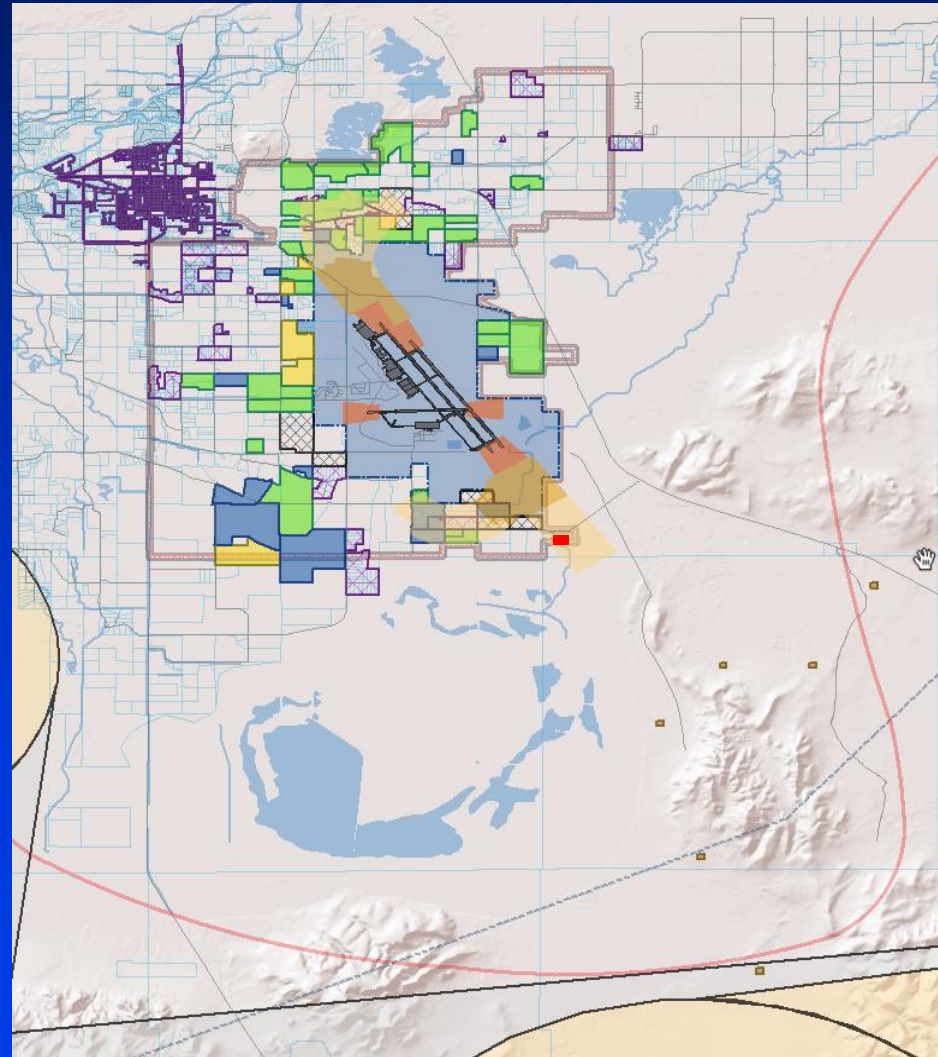
**CAPT Rinehart Wilke**  
**Commanding Officer**  
**February 7, 2012**



# NAS Fallon Cooperating Agency with BLM on Salt Wells Project



- ◆ **EIS signed on 3 projects**
  - **NV Energy transmission**
    - Awaiting plant construction
  - **Ormat geothermal plant**
    - Since withdrawn
  - **Vulcan geothermal plants**
- ◆ **Up to four 30-60 MW plants**







# Navy Geothermal Projects Office Fallon Range Training Complex

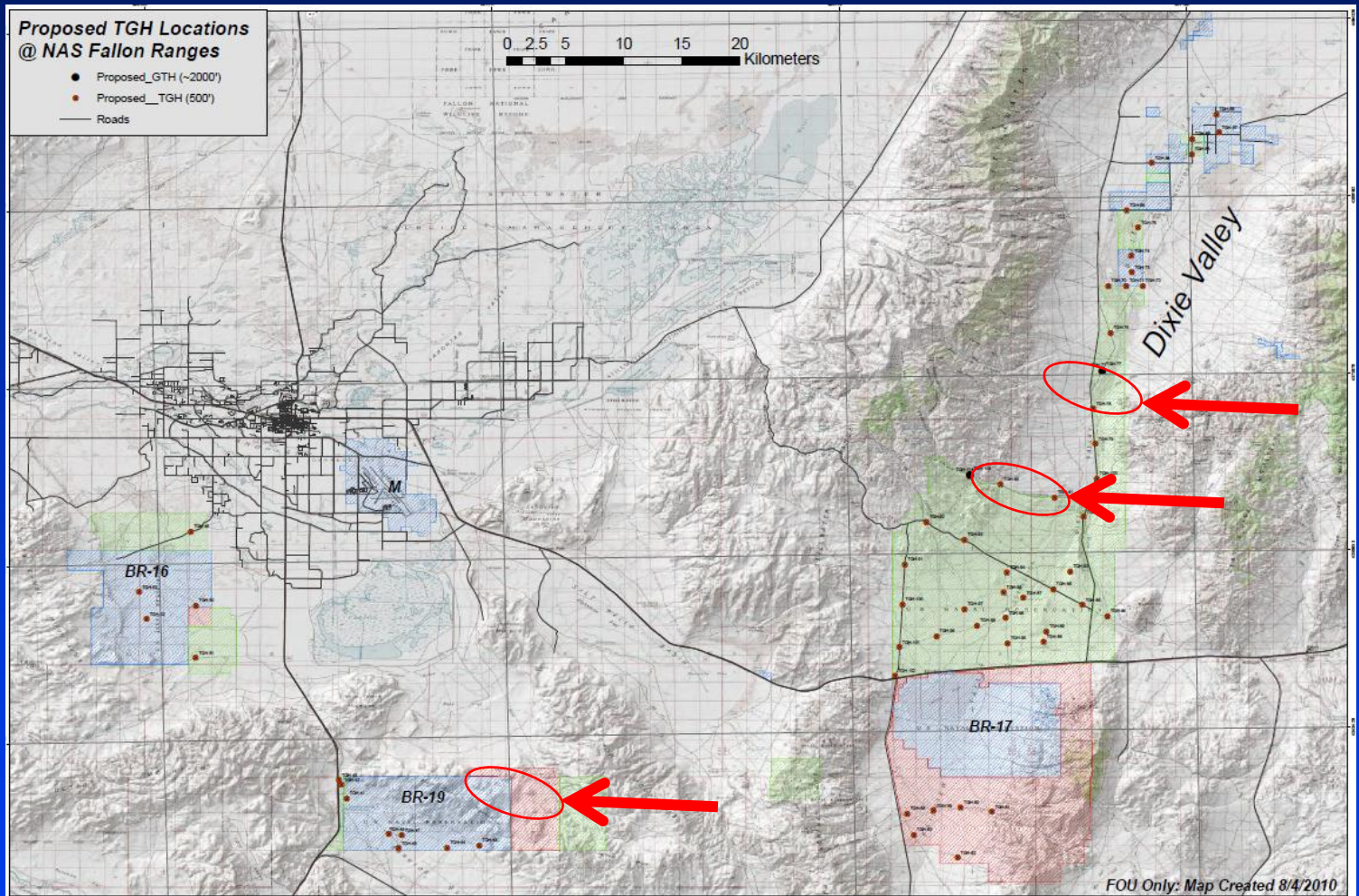


**LiDAR 90%  
complete**

**Shallow  
Probe – 90%**

**Add'l TGH  
sites to be  
submitted by  
2/8/12**

**Deep Test  
hole tentative  
start date  
6/30/12**





PG-12 CINS



PG-12 HOME

USMC CREW

NSC

INTEL

TCS

IDF&amp;D

SBT

FACT BOOK

SYSCOM HOME

CREW 2.0

&lt; CHAMELEON

CREW 2.1

CREW DISMOUNTED

CREW 3.3

## PROGRAM MANAGER, USMC COUNTER RADIO-CONTROLLED IMPROVISED EXPLOSIVE DEVICE (RCIED) ELECTRONIC WARFARE (CREW) (PM USMC CREW)

### Mission

The Program Manager, USMC Counter Radio-Controlled Improvised Explosive Device (RCIED) Electronic Warfare Systems (PM USMC CREW Systems) team leads the Marine Corps' effort in the research, development, acquisition, and sustainment of

The PM USMC CREW Systems is committed to providing highly effective and interoperable CREW systems to support the Marines' global warfighting mission. Through experience, technical knowledge, and teamwork, USMC CREW is focused on the timely delivery of CREW systems that deny the enemy the use of selected portions of the radio frequency spectrum used to initiate Radio-Controlled Improvised Explosive Devices.



# Total Allocated Spectrum



## UNITED STATES FREQUENCY ALLOCATIONS THE RADIO SPECTRUM

### RADIO SERVICES COLOR LEGEND

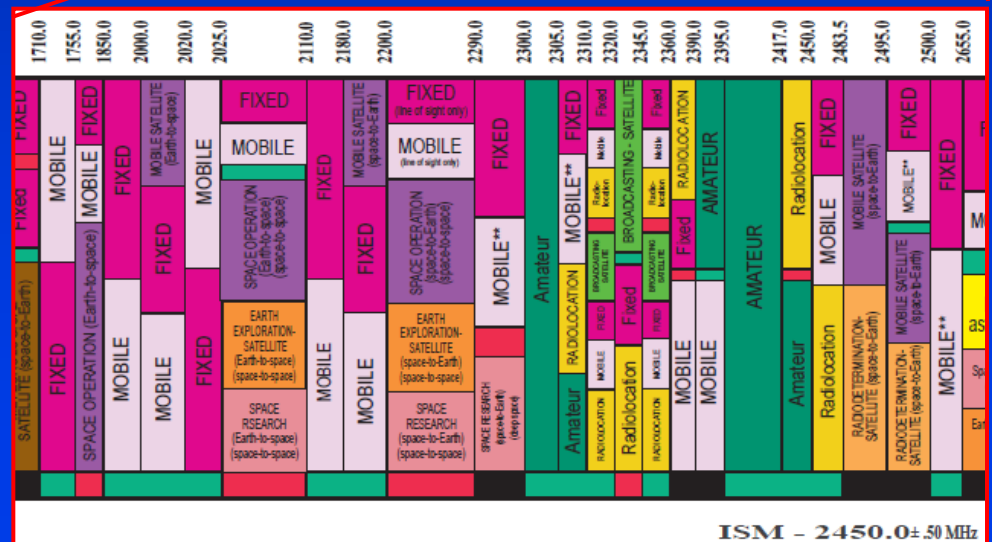
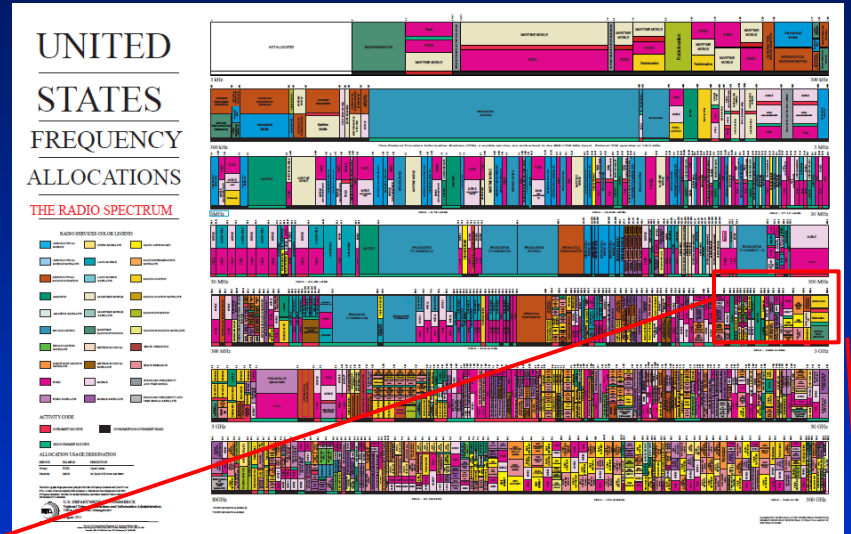





# Radio Frequency Spectrum



- ◆ Simultaneous users of the same radio frequency spectrum can *interfere* with each other
- ◆ So the US Government assigns – *allocates* – portions of the radio spectrum to different users so they do not interfere with each other



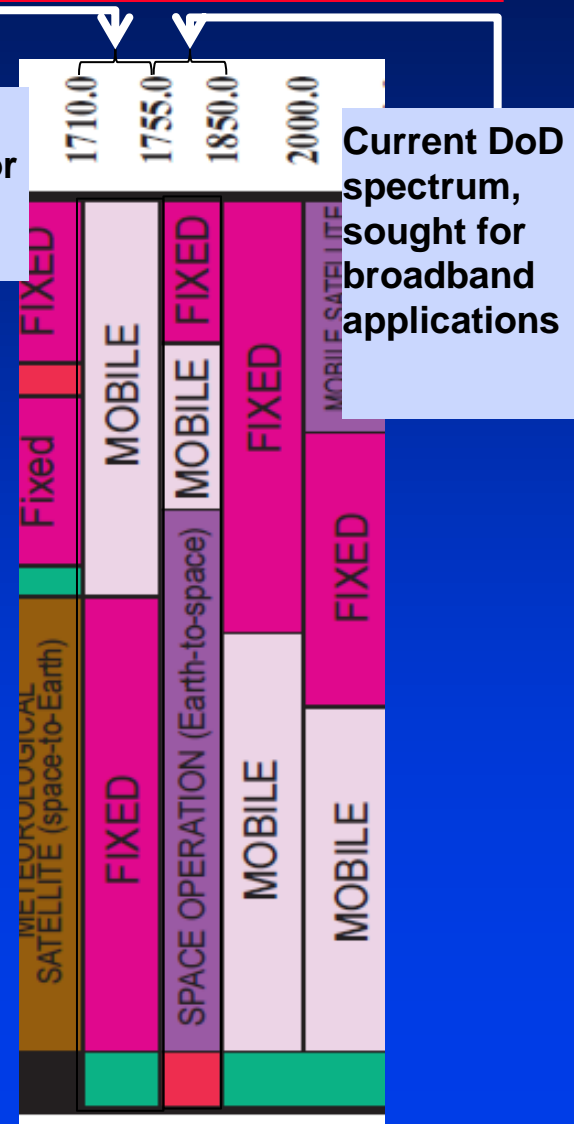


# Radio Spectrum and Broadband



- ◆ Within the US, ALL useful radio frequency spectrum is already allocated
- ◆ To increase broadband services by radio - *wireless* - allocated spectrum will have to be taken from existing users
- ◆ Since the 1990s, the government has taken spectrum allocated to the DoD and sold it to commercial wireless vendors
- ◆ DoD spectrum generally is taken across the entire US and sold off across the entire US

Formerly DoD spectrum, sold for 3G cellular





# Radio Spectrum and EW



- ◆ When DoD radio spectrum is taken away, the DoD attempts to move its equipment to other radio bands, but it cannot move *electronic warfare* equipment
- ◆ *Electronic warfare (EW)* involves jamming or otherwise disrupting enemy use of the radio spectrum
- ◆ *The part of the radio spectrum EW requires is determined by the enemy*







# **Sale of Radio Spectrum**

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- ◆ **Serious implications for the Fallon Range Training Complex with the next likely sale of frequencies 1755-1850 MHz**
  - **Loss of new Tactical Combat Training System**
  - **Loss of top priority Opposing Force vs Electronic Attack system**



# Radio Spectrum and EW

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- ◆ **Expansion of public/commercial broadband usage AND military training must co-exist.**
- ◆ ***A reservation of spectrum frequency sell off needs to be considered for the largely unpopulated areas of the Fallon Range Training Complex, Nellis Range, and China Lake Range.***
- ◆ ***Recommend full panel discussion at our next JMAC this summer.***

# Nevada's Carrier in the Desert

## QUESTIONS?

